RECEIVED

CENTRAL FAX CENTER

OCT 9 5 2005



CONFIDENTIAL FACSIMILE TRANSMISSION SHEET

DATE:

October 5, 2005

TO:

Examiner Carrillo Sharidan Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

FAX:

571-273-8300

FROM:

Joseph Kincart

Johnson & Johnson

One Johnson & Johnson Plaza New Brunswick, NJ 08933-7003

PHONE:

(904-443-3731)

FAX #:

(904-443-3078)

Re:

US Serial No. 10/692088

Our Reference: VTN5003 USA NP

スコ Total Pages Sent:

(including this cover sheet)

Please call Linda Long (904-443-1159) If you have not received all of the pages in this transmission. Thank you.

This facsimile transmission cover sheet and any documents which may accompany it, contains information from Vistakon®, Division of Johnson & Johnson Vision Care, Inc., which is intended only for the use of the Individual or entity to which it is addressed, and which may contain information that is privileged, confidential and/or otherwise exempt from disclosure under applicable law. If the reader of this message is not the intended nicipient, any disclosure, dissemination, distribution, copying or other use of this communication or its substance is prohibited. If you have received this communication in error, please call us collect to arrange for the destruction of the communication or its return to us at our expense.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES PEPARTMENT OF COMMERCE
United States Patent and Trad-mark Office
Address: COMMISSIONER FOR F V ENTS
FOR TASP
Alexandra, Virgois 2205-14 U
ewis.hapin go.

Land to the control of the season among the Carlot State of Carlot State of the Carlot State of the State of

			#MD TOLEN COL
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	
10/692,088	10/23/2003	Joe M. Wood	ATTORNEY DOCKET NO. CONFIRMATION NO.
27777 75	590 \$4,73\$/2005	POL III, WOOL	VTN-5003-USA-NP 8320
PHILIP S. JOI	HNSON		EXAMINER
IOHNSON & J	OHNSON		CARRILLO, BIBI SH. FIDAN
NEW BRUNSV	N & JOHNSON PLAZA VICK, NJ 08933-7003		ART UNIT PER NUMBER
			DATE MAILED 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED

APR 0 7 2005

J&J PAT. DKT. SECTION

Part of Paper No./Meil 17:ste 03:282005

70

		CK.	
	Application No.	Applicant(s)	
Office Action Summary	10/692,088	WOOD ET AL	
	Examiner	Art Unit	
The MAILING DATE of this communication and	Carrillo Sharidan	1745	
The MAILING DATE of this communication app Period for Reply			s
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. If the period for reply precified above is less than thirty (30) days, a reply B NO period for reply is specified above, the maximum statutory period of Faiture to reply within the sell or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may: y within the statutory minimum of the vill apply and will expire SDC (6) MK	a reply be timely filed whirty (30) days will be considered unrely. NHTHS from the malling date of this consequence.	Reation.
Status	·		
1) Responsive to communication(s) filed on an o			
a village of the second of the		•	
3) Since this application is in condition for allower	action is non-final.	41	
closed in accordance with the practice under E	ice except for formal ma ex parte Oriavle, 1935 C	itters, prosecution as to the mer	its is
Disposition of Claims	para europe, 1905 C.	D. 11, 453 O.G. 213.	
4) Claim(s) 1-19 is/are pending in the application.	_		
4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed.	vn from consideration.		
6) Claim(s) 1-19 is/are rejected.			
7) Claim(s)is/are objected to.		·	
8) Claim(s) are subject to restriction and/or	election requirement		
Application Papers	The state of the s		
9) The specification is objected to by the Examiner	• -		
10) The drawing(s) filed on is/are: a) acce	Oled or h) objected to	hu the Commission	
Applicant may not request that any objection to the d	rawing(s) he held in show	1000 CAA 77 OCO 4 OCC.	
reprocement drawing sneet(s) including the correction	on is required if the demuie	m/=\:\\\	1747-0
11) The oath or declaration is objected to by the Exa	aminer. Note the attache	d Office Action or form ⊇TC⊾15	21(a). 2
Priority under 35 U.S.C. § 119		70-10	
12) Acknowledgment is made of a claim for foreign	45°55't	_	
a) ☐ All b) ☐ Some [*] c) ☐ None of:	phonty under 35 U.S.C.	§ 119(a)-(d) or (f).	
1. Certified copies of the priority documents	have been received		
Z. Certified copies of the priority documents	have been recoived in	Andicolian No	
3. Copies of the certified copies of the priorit	ly documents have heer	Speciality in this Nation of Cases	_
obbligged up to the title to so that Rate and	(PCT Rule 17 2/2))		;
* See the attached detailed Office action for a list of	f the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PYO-802)	🎮		
2) L. Notice of Dransperson's Patent Drawing Boulow (DTO 040)	4) Linterview (Paper No.	Summary (PTO-413) s/Mall Date	
Paper No(s)/Muil Date 06072004, 10222003.	5) L Notice of i	offermal Patent Application (PTC+152)	
Patern and Trademark Chice	6) Other:		
OL-326 (Rev 1-04) 4/1/63 Office Actio	on Summary	Part of Paper No./Mail 17:16 0325	20005

Art Unit: 1746

Page 2

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-19 rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for saline solutions, organic solvents, deionized water, buffered aqueous solutions, does not reasonably provide enablement for any first and second liquid. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

The claims embrace an invention which contains any known first and second liquid, which could/can be selected from literally thousands. It does not appear to be feasible that any liquid would function for cleaning contact lens. Further, for one skilled in the art to reproduce the present invention (which must be possible, if the specification is adequate), there would clearly be undue experimentation to do so to determine which liquids work and which ones do not for cleaning of contact lenses.

Specification

 The use of the trademark Etafilcon A has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Art Unit: 1746

Page 3

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite because it is unclear what is considered as a functional size. Additionally, the preamble recites a method of removing excess material, however the claim fails to recite a positive step of removing excess material. Claims 4-5 are indefinite because it is unclear how the first liquid can have a greater ionic strength than the second liquid if both the first and the second liquid are the same solution (i.e. buffered aqueous solution). Claim 6 is indefinite because "salt solution" lacks positive antecedent basis. Claim 19 is indefinite because of the trademark Etafilcon A. Claims 18-19 are indefinite because it is unclear what is meant by "HEMA".

Claim Rejections - 35 USC \$ 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1746

Page 4

7. Claims 1-7, 9, 11-13, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by O'Driscoll et al. (3829329).

O'Driscoll teaches a method of cleaning contact lenses. In reference to claim 1, O'Driscoll teaches swelling the contact lens with a 0.9% NaCl solution followed by shrinking with hydrogen peroxide (col. 9, lines 53-58). In reference to claims 2-7, refer to Fig. 3. In reference to claim 9, refer to col. 10, lines 24-33. In reference to claim 11, refer to col. 1, lines 30-33. In reference to claim 12, Fig. 3 teaches osmotic swe ling for 4 hours. In reference to claim 13, Fig. 3 teaches 200F, which is equivalent to 93°C. In reference to claim 18, refer to col. 5, lines 5-7, 60-63,

8. Claims 1-3, 7, and 9-16 are rejected under 35 U.S.C. 102(b) as being ant cipated by Ayyagari et al. (WO01/45868A1).

Ayyagari teaches a method of pulsed extraction of residual materials from contact lenses. Ayyagari teaches varying the concentration of the primary solvent and a co-solvent. As the amount of co-solvent increases, the lens swell. As the amount of co-solvent reduces, the lens shrink. Ayyagari teaches pulsed extraction cycle in which the co-solvent (IPA) begins at a lower first amount and then is increased to a second higher amount (swelling with 20%IPA) and then is returned to the lower first amount (shrinking with 5%IPA). During each pulse, the lens goes through one cycle of expansion and shrinkage. Claims 2-3 are inherently met as a result of increasing the concentration of IPA during the swelling step. The limitations of claim 7 are inherently met since Ayyagari teaches using an aqueous solution of IPA. In reference to claim 9, Table 1 shows varying degrees of expansion as a result of varying concentrations of IPA. In

Oct-05-05

Application/Control Number: 10/692,088

Art Unit: 1746

Page 5

reference to claim 10, the limitations are inherently met since Ayyagari teaches expanding the lens to 79% (Table 1). In reference to claim 11, refer to Table 1. In reference to claim 12, refer to page 9, Fig. 3. In reference to claim 13, refer to page 8. In reference to claim 14, refer to page 11. In reference to claims 15–16, the limitations are inherently met since Ayyagari teaches that diluents need to be extracted from the contact lens and further teaches extracting in a series of steps using supercritica: fluid in combination with IPA. It is the combination of all of the extraction steps which result in the removal of diluents from the lens. Therefore, the limitations are inherently met by Ayyagari.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described he set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time time invention was made to a person having ordinary skill in the art to which said subject matter perlains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

Art Unit: 1746

Page 6

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g). prior art under 35 U.S.C. 103(a).

Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over 12. O'Driscoll et al. (3829329).

O'Driscoll fails to teach the difference in ionic strength. However, it would have been obvious to a person of ordinary skill in the art to modify the method of O'Driscoll to include a difference in ionic strength in order to cause the swelling and shrinking of the contact lens. O'Driscoll fails to teach expanding the core diameter by at least about 1mm. However, it would have been within the level of the skilled artisan to modify the method to include increasing the diameter to 1mm since O'Driscoll teaches that the core diameter expands to 35% and the thickness expands to 23%.

13. Claims 8 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ayyagari et al. (WO01/45868A1).

Ayyagari fails to teach the difference in the ionic strength. However, it would have been obvious to a person of ordinary skill in the art to modify the method of Ayyagari to include a difference in ionic strength in order to cause the swelling and shrinking of the contact lens. In reference to claim 17, Ayyagari fails to teach contact lens which are tinted. However, it would have been within the level of the skilled artisen

Art Unit: 1746

Page 7

to include tinted lenses since Ayyagari teaches that any type of lens can be used for the extraction process.

14. Claims 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ayyagari et al. (WOD1/45868A1) in view of Qui et al. (2004/018295).

Ayyagari fails to teach the limitations of claims 18-19. Qui et al. teaches swelling and shrinking of contact lens (paragraphs 196-197). In paragraph 102, Qui teaches it is conventional in the art to manufacture biomedical devices (such as contact lenses) with materials made of Elastofilcon. It would have been obvious to a person of ordinary skill in the art to modify the method of Ayyagari to include Elastofilcon, as taught by Qui, which are used conventionally in the manufacture of contact lenses.

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Witchterle teaches a method of manufacturing contact lensies. Ayyagari et al. teach the pulse extraction of ocular medical devices. Winterton et al. teach modifying a surface. Qui et al. teach a process of surface modification of substrates.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharidan Carrillo whose telephone number is 571-272-1297. The examiner can normally be reached on Monday-Friday, 6:00a.m-2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1746

Page 8

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR; only. For more information about the PAIR system, see http://pair-direct_uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic: Business Center (EBC) at 866-217-9197 (toll-free).

Sharidan Carrillo Primary Examiner Art Unit 1746

bsc

SHARIDAN CARRILLO PRIMARY EXAMINER

SIPE JON 0 7 2004 E. VE-TOLISE.

PTOISBURA (884 & Approved for eso through 10/31/2002 OMB 0551-00.11 U.S. Pateus and Trademark Office: U.S. DEPARTMENT OF COMMERC 5 Under the Paperwork Reduction Act of 1995, no gensors are required to respond to a collection of information collect if display

Sopstitute for form 1449AIPTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 1 of 1

100 000 000 000 000 000 000 000
10/692,088
October 23, 2003
Joe M. Wood ut al.
1746
CARRILL
VTN-2003

		U.S. Patern Document			
Examiner Initials	Çžbo Cžbo	Kind Ci Number (if kno	-103-10	Date of Publication of Cled Document thri-dd-yyyy	Pages, Columis, Lines, where releve at passages or relevant fig. 2 as appear
14	e	3,841385	K.F. O'Oriscoti et 2l.	10-15-1974	
	↓	·			
	 				
		-			
	<u> </u>				
	 				
	 	_			
]				

FOREIGN PATENT DOCUMENTS Foreign Palent Document Name of Patentee or Whate elective Çita Exami Indials Datages or sale of at mm-dd-уууу Applicant of Cited Document Kimi Code 0 480 049 A1 Hoya Corporation 10-17-1991 01/45868 A1 Bousch & Lomb Inc. 06-28-2001

1	Excuration		7	Date 1			
ı	Signagem	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	' m		7/25/	r.6	
1	(4.4.4.4.4			Considered		•-	
	TEXAMINER:	tritial if reference considered whether or not	challen is in assessment with I	THE WALL TO	ulla i ali an i ani al		

• Unique charlon designation number, a See attached Kinds of U.S. Patent Documents, a Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3), a For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senten number of the patent document, a Kind of document by the appropriate synthols as indicated on the document under WIPO Standard ST. 16 8 possible, a Applicant is to piece a check mark here if English language Translation is attached.

Gundan Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. A hy-comments on the procurs of time you are required to complete this form should be sent to the Chief information Officer, U. S. Patent and Trades wink Office. Washington, OC 2021). DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, F.C. Box 1430, Alexandria. VA 22313-1450

and not considered, include copy of this form with next communication to applicant,

SUBMISSION UNDER MPEP 609 D Application Number Fiting Date Fiting Date Fiting Date Fiting Date Fitting Date	OIPE										
### City Name of Patentise or Applicant of City Document Pages, Columns, Lines, where absorption and read of City Document Pages, Columns, Lines, where absorption is network figures appeared ### FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where figures appeared Pages, Columns, Lines, L	/	<i>(3)</i>									
### City Name of Patentise or Applicant of City Document Pages, Columns, Lines, where absorption and read of City Document Pages, Columns, Lines, where absorption is network figures appeared ### FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where absorption is network figures appeared Pages, Columns, Lines, where figures appeared Pages, Columns, Lines, L	2 JUN 0 2 20	. 63				Ap	plication Nu	ımbet			
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS Foreign Patents Cocument Name of Patents of Clad Document FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear To appear of Patents of Clad Document Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Office* Number*	E **** * ***	1 3									
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS Foreign Patents Cocument Name of Patents of Clad Document FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear To appear of Patents of Clad Document Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Office* Number*	Ex !	<i>iii</i>		ALLENDED MOED COO	_						et al.
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS Foreign Patents Cocument Name of Patents of Clad Document FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear To appear of Patents of Clad Document Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Office* Number*	A .	, ₹>>SUBN	NISSI	ON ANDER WHEN 808	ט					7%	
FOREIGN PATENT DOCUMENTS Foreign Patents Document Name of Patents of Clark Document Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appears Foreign Patent Document Pages, Coturns, thes, where stewart passages or relevant figures appears Foreign Patent Document Pages, Coturns, thes, where stewart passages or relevant figures appears To appear or Patents Document Office* Number* MindCode* To appear or relevant figures appears Office* Number* MindCode* To appear or relevant figures To appear or relevant passages To appear	A\$ (DL98)									Canzilla	
FOREIGN PATENT DOCUMENTS Foreign Patents Document Name of Patents of Clark Document Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appears Foreign Patent Document Pages, Coturns, thes, where stewart passages or relevant figures appears Foreign Patent Document Pages, Coturns, thes, where stewart passages or relevant figures appears To appear or Patents Document Office* Number* MindCode* To appear or relevant figures appears Office* Number* MindCode* To appear or relevant figures To appear or relevant passages To appear				Page 1 of 1		A	torney Dock	tel Numi	ner	VTN-5003	1
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS Foreign Patents Cocument Name of Patents of Clad Document FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear Foreign Patent Document Pages, Coturns, thes, where stewart passages or network figures appear To appear of Patents of Clad Document Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Talpicant office* Office* Number* MindCode* Office* Number*	·			U.S. P.	TENT	DOCI	UMENTS				
FOREICEN PATENT DOCUMENTS Pagas, Columns, Libes, where relevant passages or relevant figures appear of the author (in CAPTICAL LITERATURE DOCUMENTS) OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS FOREICEN PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPTICAL LITERATURE DOCUMENTS)					U	. Pet	ert Cocument.				
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS Pages, Column, Lines, where starting passages or relating to the starting passages or relating		· I		Name of Paternse or Applicant	-			Vied.	F=4-2	Pages, Column	i, Lines,
FOREIGN PATENT DOCUMENTS Fursion Pysient Document Fursion Pysient Document Fursion Pysient Document Pages, Columns, Unies, where intervals passages or retevals passages or r		Examiner		• •						where allevant pa	क्षान्त्रक्त वर क्षान्त्रक्त वर
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			No.'			1111101		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	IDANU .	10001017	·
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published					_L						
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	•	1									li li
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		 	-		-}-					····	
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published											
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		1 1			1			٠, ١		l	
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published		<u> </u>			\top				-		
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published											·
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published											
Examiner Inhibits Cite Name of Patentos or Applicant of Cited Occument Other Price Applicant Occument Other Price Applicant Occument Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published										1	i
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear		·							-		
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear		1								<u> </u>	
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear		1		•	- 1		•*			l -	i
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear		-									
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear			-		⊢					 	——-ij
Pages, Cobmins, Lines, when retrorait passages or rebroat floatics appear		ļ							<u>. </u>		
Cite No., Name of Patente of Applicant of Chad Occument Office? Number! KindCode! Suppose of relovant figures appear? Gibbs: No., No., No., No., No., No., No., No.,				FOREIG			, ,				
Examiner Initials No.! Applicant of Clied Occument Office? Humber! KindCode appear T4 OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Examiner City time of the author (in CAPITOL LETTERS), title of the article (when appropriate), retained a final code, magazine, journal, serial, symposium, catalog, etc.), date, page(s), T2 Initials No. Volume-issue number(s), publisher, city and/or country whore published			T		Foreig	la Lat	ent Qocoment		Page	Cobinna, Lines,	
Office Number RandCode appear Office Number RandCode appear Office RandCode		Examiner	Cas					_	Qr.	clovant figures	_T
OTHER PRIOR ARY - NON PATENT LITERATURE DOCUMENTS Examiner String of the author (in CAPITOL LETTERS), title of the article (when appropriate). Examiner String of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city anallor country where published		Inhials	No.1	Withdraw or Cath recumber	Office	,	Humber Ki	nd Code [®]	ļ	shbesi,	l.il
OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), relimiteds Totals						\neg					
OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), relimiteds Totals		ļ	 	<u> </u>	-				1		
OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), relimiteds Totals			<u> </u>	l					1 .		<u> </u>
OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), relimiteds Totals			1	1	[1
OTHER PRIOR ART -NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), relimiteds Totals			 		····				<u> </u>	··········	1
Examiner City (the of the author (in CAPITOL LETTERS), title of the article (when appropriate), (title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), 12 column - issue number(s), publisher, city and/or country where published			 		-			ļ	ļ		
Examiner City (the of the author (in CAPITOL LETTERS), title of the article (when appropriate), (title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), 12 column - issue number(s), publisher, city and/or country where published		l l	1	I	<u> </u>				<u> </u>		1
Examiner City (the of the author (in CAPITOL LETTERS), title of the article (when appropriate), (title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), 12 column - issue number(s), publisher, city and/or country where published					1						
Examiner City (the of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	.•		-	<u> </u>			 	 		•	
Examiner City (the of the author (in CAPITOL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	•	<u></u>	1						<u> </u>		
Examiner Cite time of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(e), 's No.' volume-issue number(s), publisher, city and/or country where published			,	OTHER PRIOR ART -	ON PAT	ENT	LITERATURE	DOCUME	NTS		
's No.' volume-issue number(s), publisher, city and/or country whore published		C	~								TŽ.
Initials*	•	4	No.1	volume-issue sumber	st metal	lehar	city and/or o	South A	Mare amp	lishad	1 '
FCT international Search Report, dated March 25, 2004, for PCT lists. Apple. No. PCT/I/Std3/33867							-	_			<u> </u>
		H		FCT International Search Report, date	d March	西, 2	Q04, for PC7 tr	g, Appin, I	lo. PCT/	IS03/33867	
		ļ <u> </u>	+		-					·	
			<u> </u>								
			_								Ţ
		ļ	-	 						· · · · · · · · · · · · · · · · · · ·	 -
			1	 					-		1
											1
						-					<u> </u>

PTO'SBRISK (BB:KI)
Approved for use Brough 1001/2002 Owig 0554-010.
U.S. Patient and Trademark Office: U.S. OEPARTINENT OF COLUMET OF
B statistics of International Tables it distance a weet fluor Under the Paperson's Reduction Act of 1995, no paragrapes are implied to respond a Substitute for form 1449APTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(D60 at many sheets as encorrary) Sheet 1 of 2

a collection of information unless it displays	BYALI OMB control num; e
Application Number	Not Vet Assignid 10/692088
Filing Date	October 23, 2003
First Named Inventor	Wood et al
Group Art Unit	Not You Assigned 1746
Examiner Name	Not Yet Assigned Care !!
Altorney Docket Number	VTN-5003-US:A-NP

				U.S. PATENT DOCUMENTS		
		U.S. Petent D				
Examiner Initials	CRu No. ¹	Number	Kind Code ² (if kraswn)	Name of Palannes or Applicant of Clast Document	Date of Publication of Clad Occument mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or intevent types appear
H		4,208,362		Deichert et si	Q6-17-1980	
-		4,834,449		Janking	\$1-06-1987	
		4,688,240		Lograph	DS-26-1987	
		4,733,959		Clousson et al	\$3-29-1988	
_1		4,751,069		Truong et al	98-2-1988	
·		4,777,584		Johnson	10-18-1988	
		4,811,682		Sterman	3-14-1589	
		4,865,439		Neefe	8-12-1989	
		4,885,440		Necla	9-12-1988	
		4,903,052		Neete	2-20-1990	
		4,963,159		Narduny et gi	10-18-1990	
		4,978,481		Jameson et al	12-18-1990	
	<u></u>	6,080,639		KindhLarsen	1-14-1992	
1		5.151,108		Shoumik et al	9-29-1992	
		5,271, 6 74		Osipo et al	12-21-1993	
		5,271,575		Appleton et al	12-21-1993	
		5,451,237		Vahige	9-19-1995	
		5,466,147		Appleion et al	17-14-1995	
		5,561,970		Edio et al	10-8-1996	
		5,640,980		Koone et al	B-24-1997	
	Ĺ	5,649,410		Martin et al	7-22-1997	
		5,690,855		Anderson at all	17-25-1997	
		5,705,894		Edwards et al	1-13-1998	
		5,708,049		Katagiri et al	1-13-1998	-
		5,746,838		Huth	5-5-1988	
V		5,762,081		Keene et al	B-9-1998	
154		5,824,719		Kumaler et ui	10-20-1998	

*EXAMENÉE: Initial 8 returence considered, whether or ext existion is in combination with MPEP 809, Draw line through challen If not in conformance with MPEP 809, Draw line through challen If not in conformance and not considered, include copy of this form with ment complements.

Inhipse citation designation number, a See attached Kinds of U.S. Patent Documents, a Enter Office that issued the document, by the two-lefts, code (WPO Standard ST.3), 4 For Japanese patent documents, the indication of the year of the edge of the Emperor must procede the script number of the patent document is Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST. 18 if possible, a Applicant is to place a check mark here it English language Translation is attached.

Burden Hour Statement: This farm is estimated to take 2.0 fecus to complete, Time will vary depending upon the needs of the individual case. Why comments on the smooth of time you are required to complete this form stouck to the Crief Information Officer, U. S. Patient and Todds.httpk. Office, Washington, OC 20231. DO NOT SEND FEES OR COMPLETED FORUS TO THIS ADDRESS, SEND TO: Commissioner for Patients, 2.1. Sent 1450, Abscarding, Va 22313-1450

S. Cle 3/25/05

PTO/SBOBA (CIRCO)
Approved for use through 10/31/2022 CIAS (CS) (XI)
U.S. Partent and Trademark Office: U.S. DEPARTMENT OF COURSE RCE Under the Passenant Reduction Act of 1995, as persons are required to respond to

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 2

a condition of britaintistical maters of Gabbala	a state CAR contest our styp.
Application Number	Not Yet Assi Fied 10/6
Filing Date	October 23, 2003
First Named Inventor	Wood et al
Group Art Unit	Not-Yet-Assigned 1746
Examinar Name	Not Yet Assigned Oxcept
Attorney Docket Number	VTN-5003-U 3.4-NP

	ł	U.S. Patent	Document			3.4
Examiner Indiats	C4e Np.°	Number	(IZ known.)	Name of Pulsates or App <u>licant</u> of Cand Document	Opto of Publication of CKBd Document mm-dd-yyyy	Pages, C. lumns, Lines, where relational passages or relevant \$1000 experi
HOL		5,838,323		Keeno et al	11-17-1988	
		6,012,471		Calvin et al	1-11-2000	
_		6,071,112		Calvin ot al	6-6-2000	
		6,196,583		Quinn et al	3-6-2001	
_1	L	6,207,085		Schlagajet pl	3-27-2001	
_#		6,248,266		Garday et al	6-19-2001	
4		6,348,507		Heller et at	2-19-2002	
<u> </u>		20010045676		Winterton of al	11-29-2001	· · · · · · · · · · · · · · · · · · ·
1		20010048975		Winterion et ol	12-6-2001	
134		20020183559		Fond et al	12-19-2002	
					<u> </u>	
		•				
1					 	
						
						
					 	
					 	
					 	
					+	
		· · ·			 	
$\overline{}$			 -		 	

*EXAMPLE: theight of reference considered, whather or not clading is to combination with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if not in continuous manner with MPEP 609, Days like through cladion if no continuous manner with MPEP 609, Days like through cladion in continuous manner with MPEP 609, Days like through cladion in continuous manner with MPEP 609, Days like through cladion in continuous manner with MPEP 609, Days like through cladion in continuous manner with MPEP 609, Days like through cladion in continuous manner with MPEP 609, Days like through the clade of the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the clade of the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuous manner with MPEP 609, Days like through the continuou

I Unique classon designation number, a Sero attached Winds of U.S. Patent Documents, a Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). I For Internet putert documents, the indication of the year of the reign of the Emperor must proceed the serial number of the patent document, a Nind of document by the appropriate symbols at indicated on the document under WIPO Standard ST, 16 if possible, a Applicant is to place a check must here if Empiric language Translation is accurate.

Sunten Hour Statement: This form is destinated to take 2.0 hours to complete. Time will vary depending upon the needs of the included case. Any connectes on the appoint of this you are required to complete this from should be sent to the Crist Information Officer, U. S. Patent and Track mark 1650, Alexandria, VA. 22313–1450.

*-2001)

Part of Paper No. 0::282005

Notice of References Cited